

CLIMATOLOGICAL DATA FOR MARCH, 1913

DISTRICT NO. 11, CALIFORNIA.

Prof. ALEXANDER G. McADIE, District Editor.

GENERAL SUMMARY.

March, 1913, was cool and dry. Not quite as cool as March, 1912, but much drier. The month as a whole, however, was favorable for agriculture, except in certain areas, more particularly in the San Joaquin Valley and the central coast valleys. There were few injurious frosts and the great fruit crops came safely through the critical blossoming period. While the month was the driest March in the past five years, and with one exception the driest in 11 years, the distribution of the rain with regard to time was most favorable. Showers occurred when most needed and there was no waste of water. There were no floods nor at any time sufficient rain or snow to cause apprehension. The depth and extent of the snow cover exceeded somewhat those of last year and while there is no prospect of abundant water for irrigation, power, mining, and other purposes, there will probably be enough water in storage to meet the needs of the summer.

Perhaps the most interesting feature of the weather of the month is the early history of certain disturbances, having their origin on the Pacific coast, which, subsequently crossing the country, developed into disastrous record-breaking storms. This is particularly true of the disturbance of March 21, which within 48 hours devastated portions of Nebraska and adjoining States; and the southwestern disturbance of March 24, which within 36 hours caused memorable rainfalls and consequent floods in the Ohio Valley.

The month began with pressure distribution favorable for light north winds, cool mornings, and light frost in exposed places. There was a quick change in the surface circulation and by the 2d the winds had changed to south, and light showers had occurred in the central and northern counties. This was followed by a period of fair weather lasting more than a week. The pressure was high, the surface winds north-northeast, and the temperature unusually high in the afternoon. Well-marked foehn effects were noticeable from the 4th to the 7th. Afternoon temperatures exceeded 80° at many stations on the southern side of the Sierra Madre and were as high as 75° at many points on the northern side of the range. The dynamic heating could also be noticed on the two sides of the Sierra Nevada, the air moving westward or southwestward over the range and descending into the Great Valley of California was much warmer at a given elevation on that side than at a corresponding elevation on the other side.

Beginning March 10 a distinct change in pressure distribution over the southwestern portion of the country occurred. The pressure fell rapidly over the Great Basin, affecting the weather in southern California. Cold north winds prevailed in central and northern California, also Nevada, while high southerly winds prevailed in southern California and in Arizona. This storm passed eastward, increasing in energy, and by the 14th had developed into a remarkable cyclone, a pressure of 28.98

inches being recorded at the center of the storm; the isobars were unusually symmetrical and the pressure gradients phenomenally uniform. Meanwhile on the Pacific coast there had been a return to a normal type of pressure distribution and there were no indications of further unusual developments. On March 17 there was a rapid change over the North Pacific Ocean, more particularly in the Gulf of Alaska. For some reason as yet undetermined, the North Pacific low extended rapidly eastward, and meanwhile the pressure was abnormally high over the eastern half of the country and rising steadily in British America and Alaska. It was plain that a period of unsettled weather could be anticipated on the Pacific slope south of latitude 50°. Southwest storm warnings were displayed at Eureka and southward to San Luis Obispo on March 17 and at Los Angeles and south to San Diego on March 18. There was a slight rise in pressure on March 19, which, however, was misleading and only of a temporary character. Unsettled weather prevailed throughout California on March 20 and on the 21st the pressure distribution was favorable for a well-marked storm. Southeast warnings were displayed for 48 hours. The disturbance on Saturday morning, March 22, was over the Great Basin, and while there was no indication of its rapid movement eastward and the complete reversal of pressure conditions on the two sides of the continent which did occur within 24 hours, it was noticed that there was a strong indraft of southerly winds covering practically the whole territory northwest of a line drawn from Los Angeles to Yuma, to Dodge, to Chicago. On Sunday morning, March 23, Easter Sunday, the storm had developed into one of large proportions. On the Pacific coast the weather was unsettled, rain was general, and snow fell in the mountains. The pressure rose rapidly and high northwest winds prevailed along the coast. Frost occurred on the morning of the 25th and again on the 26th. The rest of the month was without special feature.

TEMPERATURE.

The mean temperature for the State was 2° below the normal. The following table gives the means and departures for each March from 1897 to 1913, inclusive:

Year.	Mean.	Departure.	Year.	Mean.	Departure.
	°F.	°F.		°F.	°F.
1897	48.0	-3.6	1906	50.8	-1.0
1898	48.8	-3.0	1907	49.0	-2.8
1899	51.2	-0.6	1908	51.8	0.0
1900	55.7	+3.9	1909	48.5	-3.3
1901	53.0	+1.2	1910	54.7	+2.9
1902	49.7	-2.1	1911	52.7	+0.9
1903	50.9	-0.9	1912	48.6	-3.2
1904	51.1	-0.7	1913	49.6	-2.2
1905	54.7	+2.9			

The highest temperature recorded was 95°, which occurred at Heber and Mojave on the 30th and at Blythe

on the 31st. This was 3° higher than the highest temperature recorded during March, 1912. The lowest temperature was -7° at Tamarack, which occurred on the 1st. This was 10° higher than the lowest during March, 1912, at the same place. The highest monthly mean was 66.2° at Mammoth, and the lowest was 21° at Tamarack.

PRECIPITATION.

The precipitation was much below normal. The following table gives the average precipitation and departure from normal for each March from 1897 to 1913, inclusive:

Year.	Mean.	Departure.	Year.	Mean.	Departure.
	Inches.	Inches.		Inches.	Inches.
1897.....	3.98	-0.76	1906.....	9.19	+4.45
1898.....	0.66	-4.08	1907.....	10.67	+5.93
1899.....	6.10	+1.36	1908.....	1.49	-3.25
1900.....	2.38	-2.36	1909.....	3.56	-1.18
1901.....	1.01	-3.73	1910.....	2.43	-2.31
1902.....	3.39	-1.35	1911.....	6.02	+1.28
1903.....	5.80	+1.06	1912.....	5.17	+0.43
1904.....	8.52	+3.78	1913.....	2.16	-2.58
1905.....	5.42	+0.68			

The greatest monthly precipitation was 9.45 inches at Nellie. At nine stations no precipitation was recorded during the month. The greatest 24-hour rainfall was 3.35 inches at Greenville on the 22d.

Snowfall.—March was a month of less than average snowfall. There were no heavy falls, except on the 22d. On the other hand, there were no warm spells, no rapid melting, and no excessive evaporation. During the third week the depth and area of the snow cover were materially increased, but, nevertheless, not enough snow fell to insure a bountiful supply of water during the coming summer. The State could well stand two or three heavy snowfalls in the mountains. The snow is well packed, at a low temperature, and the water content high. The loss by evaporation and melting was less than in a normal March. There has been no waste of water.

SNOW IN THE MOUNTAINS.

The following table shows the depth of snow on the ground at Summit on given dates in March during the period 1907 to 1913:

1907.....	104	1911.....	222
1908.....	116	1912.....	26
1909.....	201	1913.....	52
1910.....	65		

SUNSHINE.

The following gives the hours of sunshine and percentages of the possible:

Stations.	Hours.	Percent- age of possible.	Stations.	Hours.	Percent- age of possible.
Eureka.....	124	34	Sacramento.....	308	83
Fresno.....	300	81	San Diego.....	260	70
Los Angeles.....	302	81	San Francisco.....	261	70
Mount Tamalpais.....	270	73	San Jose.....	269	73
Red Bluff.....	253	70	San Luis Obispo.....	251	67

NOTES ON THE RIVERS OF THE SACRAMENTO AND LOWER SAN JOAQUIN WATERSHEDS DURING THE MONTH OF MARCH, 1913.

By N. R. TAYLOR, Local Forecaster.

Sacramento watershed.—From the mouth of the Pitt River to tidewater the Sacramento River was lower than for any previous March of which there is an authentic record. At Red Bluff, Colusa, Knights Landing, and Sacramento City the average stages for the month were 5.1, 8.0, 7.0, and 9.6 feet, respectively, below the averages which have been maintained at these places during all previous years of record.

The average stage of the American River equaled that of the corresponding month of 1912, when this stream was the lowest on record for the month.

In the Feather-Yuba watershed all previous low-water records for March were broken by from 0.5 of a foot to nearly 1 foot.

Light scattered showers occurred in the upper reaches of the Sacramento River during the first decade of the month, and rains, more or less general, fell throughout the drainage basin of the Sacramento Valley from about the 17th to 24th, inclusive. The rain was moderately heavy north of Red Bluff, causing rises ranging from 2.5 at Vernon to as much as 4 feet at Red Bluff between the 22d and 25th. Below the mouth of the Feather River the swell amounted to little more than 1 foot.

Lower San Joaquin watershed.—The stages of the Mokelumne and the Upper Cosumnes Rivers equaled the low-water stages that obtained during March, 1912. In all other streams in this watershed the average stages were the lowest recorded during the month of March. In the Lower San Joaquin itself, north of the Stanislaus, the river averaged nearly 10 feet below the normal for the past 15 years and over 1 foot below the lowest stages previously recorded during the month.

Rains, mostly light, were general from the 18th to about the 25th, inclusive, causing slight rises in all streams, which were still in progress at the close of the month.

The effects of snow water on run-off were not apparent at any time during the month.

NOTES ON THE STREAMS OF THE UPPER SAN JOAQUIN WATERSHED.

By W. E. BONNETT, Local Forecaster.

Deficient precipitation and cool weather, which prevented any considerable melting of mountain snows, have kept the streams of the Upper San Joaquin watershed at very low stages. Average gage heights are slightly higher than those of February at all points but they fall far short of the March average for the last seven years and were everywhere much lower than the lowest previously recorded March stages, namely, those of 1908.

At Merced Falls the average stage was 0.7 foot, the seven-year average for March is 1.4 feet, and the monthly range was from 0.4 to 1.1 feet. At Friant the average was -0.4, the seven-year average is 1.3 feet, and the monthly range -0.6 to 0.1 foot. There was no change at Firebaugh, the stage remaining at -0.9 foot throughout the month as compared with a seven-year mean of 3.5 feet. At Piedra, on the Kings River, the mean stage was 4.9 feet, the lowest for many years, and the monthly range was from 4.6 to 6 feet. The highest stages for the month at all points occurred on the last day following some warm days.

While the stages for March this year were lower than those of the same month in 1912, they are only slightly lower, but the situation with reference to the demand for water is vastly different than it was at this time last year. Somewhat more than 3 inches of rain fell over this portion of the valley in March, 1912, and it was followed by almost 2 inches in April, so that the ground was in excellent condition from the rains. There was consequently very little demand for irrigation water until the normal summer rise in the streams began in May.

In the month just closed the average rainfall in this vicinity was less than one-fourth of an inch, and there is a pressing demand for several times the water for irrigation that is now available. A flow sufficient to fill all ditches probably will not be available much before May 1, unless April is unusually warm, and irrigators are greatly disturbed by the shortage.

TABLE 1.—Climatological data for March, 1913. District No. 11, California.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.						
Oregon.																					
Klamath Agency.	Klamath.	4,169	4	28.8	- 6.1	45	29+	3	1	32	0.65	- 0.88	0.12	4.0	9	18	6	7	w.		
Klamath Falls.	do.	4,100	23	33.3	+ 4.0	84	7	41	14	31	0.50	- 1.17	0.11	5.3	10	12	9	10	nw.		
Lakeview.	Lake.	4,825	29	31.1	- 4.6	57	7+	4	24	32	0.61	- 0.09	0.09	4	9	10	3	18	s.		
Merrill.	Klamath.	4,070	6	33.9	-	63	31	5	6	40	0.17	-	0.20	3.8	8	0	15	7	U. S. Reclamation Service.		
Yonma.	do.	4,146	5	28.9	-	54	9	1	1	39	0.82	-	0.20	3.8	8	0	12	19	Jacob Rueck.		
California.																					
Alturas.	Modoc.	4,400	9	35.4	-	65	31	5	25	41	1.43	-	0.30	18.0	9	10	13	8	sw.		
Angiola.	Tulare.	208	13	57.6	+ 4.0	84	7	41	26	34	0.51	- 0.91	0.25	0	4	24	0	7	n.		
Antioch**.	Contra Costa.	46	34	59.5	+ 5.1	82	13+	32	8	24	0.67	- 1.63	0.35	0	4	21	0	10	Southern Pacific Co.		
Aptos**.	Santa Cruz.	102	28	51.1	- 1.2	72	8	31	13	17	1.22	- 2.73	0.46	0	6	18	5	8	nw.		
Arrowhead Springs.	San Bernardino.	2,000	4	59.0	-	84	30	32	23	32	1.29	-	0.42	T.	6	20	9	2	Do.		
Auburn.	Placer.	1,360	42	51.3	- 0.4	82	30	29	13	37	2.06	- 3.66	0.70	1.0	7	20	5	6	Southern Pacific Co.		
Avalon.	Los Angeles.	30	3	56.0	-	77	7	45	16	24	0.35	-	0.25	0	4	27	3	1	T. S. Manning.		
Azusa.	do.	540	11	54.6	- 1.7	88	6	30	12	46	0.58	-	3.70	0.38	0	5	21	3	A. P. Griffith.		
Bagdad.	San Bernardino.	784	10	62.8	- 1.1	89	31	39	1	30	0.00	- 0.65	0.00	0	0	0	0	0	Santa Fe Co.		
Bakersfield.	Kern.	404	24	57.2	+ 0.5	86	10	32	50	15	1.43	-	0.26	0	5	26	0	5	Do.		
Barstow.	San Bernardino.	2,105	10	54.8	- 3.0	88	30	30	27	42	0.45	- 0.11	0.45	0	1	29	0	2	w.		
Berkeley.	Alameda.	317	26	51.8	0.0	78	7	35	24	36	1.98	- 2.92	0.57	0	5	15	7	9	State University.		
Betteravia.	Santa Barbara.	52.1	-	78	30	29	14	40	60	0.25	-	0.25	0	4	21	9	1	Union Sugar Co.			
Biggs**.	Butte.	98	14	50.6	- 2.6	80	7	27	24	1	1.48	- 2.33	0.90	0	5	18	3	10	Southern Pacific Co.		
Bishop.	Inyo.	8,500	3	30.2	-	56	30	5	1+	37	1.00	-	0.60	10.0	5	14	0	17	Paul E. Lodge.		
Bishop Creek.	Humboldt.	1,700	7	44.6	-	75	6+	21	14	41	6.33	-	1.25	6.0	11	3	8	20	Do.		
Blocksburg.	Placer.	4,695	14	39.0	- 0.8	67	6+	12	1	43	5.10	- 9.30	1.50	51.0	7	20	0	11	Victor Hope.		
Blue Canon.	Riverside.	268	4	55.5	-	95	31	24	1+	53	T.	-	T.	0	0	25	2	4	Southern Pacific Co.		
Blythe.	Mendocino.	2,000	13	45.0	- 0.4	79	7	23	14	39	6.17	- 6.57	1.85	6.0	12	13	8	10	C. L. Suits.		
Branscomb.	Imperial.	-105	4	57.3	-	89	30	29	1	44	0.00	-	0.00	0	0	0	0	0	M. D. Witter.		
Brawley.	Imperial.	3,300	4	57.3	-	71	31	13	26	49	2.53	-	0.71	16.1	7	10	10	11	Mrs. M. D. Chambers.		
Burney.	Shasta.	3,600	3	38.3	-	77	30	20	2	42	0.75	-	0.20	4.0	5	19	5	7	Dr. W. L. Shawk.		
Cahuilla.	Riverside.	0	8	59.7	-	88	30+	32	25	45	0.00	-	0.00	0	0	0	1	0	J. E. Peck.		
Calexico.	Imperial.	1,290	37	49.1	- 6.9	66	20	34	14	32	0.32	- 0.70	0.65	0	4	18	0	13	Southern Pacific Co.		
Caliente**.	Kern.	363	41	44.6	- 8.9	65	11	25	13	31	3.21	- 2.47	1.54	0	4	21	0	10	Do.		
Calistoga**.	Napa.	217	16	50.8	- 0.8	79	8	29	15	41	0.90	- 2.69	0.39	0	6	21	2	8	F. M. Righter.		
Campbell.	Santa Clara.	3,500	6	46.6	-	76	7+	20	24	38	5.97	-	1.54	35.0	9	17	4	10	Cal. Gas & Electric Co.		
Campptonville (near).	Yuba.	4,675	19	36.4	- 1.6	68	31	9	24	32	1.05	- 0.90	0.35	18.0	5	24	1	6	T. H. Johnstone.		
Cedarville.	Modoc.	1,200	21	54.2	+ 2.0	83	6+	32	25	42	0.59	- 6.88	0.88	0	6	23	2	6	G. H. Stephenson.		
Chico.	Butte.	189	43	51.1	- 4.5	79	8	28	13	44	2.41	- 0.84	1.00	0	7	19	1	11	O. I. Westerburg.		
Chima Flat.	Humboldt.	600	4	50.4	-	82	31	28	25	44	2.82	-	1.03	0	11	10	6	15	Southern Pacific Co.		
Chino.	San Bernardino.	714	21	49.0	- 11.8	71	11	35	3	0.00	- 3.74	0.00	0	0	23	0	8	Do.			
Cisco**.	Placer.	5,930	42	35.6	+ 2.2	51	5+	18	13	31	5.50	- 3.48	1.20	55.0	9	21	0	10	Do.		
Clarendont.	Los Angeles.	1,200	21	54.2	+ 0.3	83	6+	32	25	42	0.59	- 3.69	0.32	0	4	22	8	1	Prof. F. P. Brackett.		
Cloverdale.	Sonoma.	340	11	52.7	+ 0.2	84	6	28	25	40	2.61	- 6.88	0.88	0	6	23	2	6	John O. Ogle.		
Coalinga.	Fresno.	663	1	53.5	-	82	9+	30	26	40	0.22	-	0.12	0	4	23	0	8	Union Oil Co.		
Coffax.	Placer.	2,421	42	39.6	- 10.5	71	9	12	25	33	1.70	- 6.40	0.62	8.0	7	24	1	6	Southern Pacific Co.		
Colusa.	Colusa.	60	10	51.8	- 1.3	78	6+	29	13	38	1.12	- 1.29	0.75	0	3	24	4	3	C. D. McComish.		
Corning **.	Tehama.	277	27	54.3	+ 1.7	79	6+	35	13	31	1.39	- 1.92	0.82	0	6	12	13	6	Southern Pacific Co.		
Cuyamaca.	San Diego.	4,677	14	39.2	- 1.5	71	31	11	3	41	2.12	- 5.85	0.49	6.0	7	17	6	8	Cuyamaca Water Co.		
Davisville.	Yolo.	51	41	44.2	- 4.4	82	31	28	13	41	0.98	- 1.51	0.33	0	5	17	8	6	S. H. Beckett.		
Deer Creek.	Nevada.	3,700	6	39.2	-	68	7-	12	25	42	5.36	-	1.23	41.0	9	20	3	8	Cal. Gas & Electric Co.		
Del Monte.	Monterey.	25	2	52.6	-	80	8	34	16	40	0.95	-	0.45	0	4	20	5	6	H. R. Warner.		
Delta.	Shasta.	1,138	28	46.4	- 3.5	69	31	28	15	36	3.46	- 6.78	0.94	2.5	4	16	10	5	Southern Pacific Co.		
Denair.	Stanislaus.	126	13	51.8	- 1.5	80	7	25	1	36	0.65	- 1.65	0.55	0	2	18	0	13	Santa Fe Co.		
De Sable.	Butte.	2,500	9	44.4	-	76	6+	14	24	37	6.56	-	1.75	38.0	8	10	13	8	Cal. Gas & Electric Co.		
Dobbins (near).	Yuba.	1,650	9	51.6	-	82	6	30	25	36	4.05	-	1.55	0	9	12	10	9	Do.		
Downieville.	Sierra.	3,150	2	42.2	-	74	30+	17	24	44	5.55	-	1.33	23.5	9	14	7	10	J. T. Mason.		
Dudley.	Kings.	595	1	55.1	-	82	8+	32	25	37	0.24	-	0.20	0	2	19	9	3	Union Oil Co.		
Dudleys.	Mariposa.	3,000	4	-	-	74	31	23	13	36	2.13	-	0.46	T.	7	14	8	9	Do.		
Dunlap (near).	Fresno.	2,800	1	45.2	-	81	31	34	25	31	0.63	-	0.46	T.	7	14	8	9	U. S. Forest Service.		
Dunnigan **.	Yolo.	65	36	59.3	+ 4.3	84	31	45	24	31	1.40	- 1.56	0.52	0	5	21	5	5	Southern Pacific Co.		
Dunsmuir **.	Siskiyou.	2,285	24	42.4	- 2.4	75	8	28	17	24	2.94	- 6.13	1.21	5.5	8	19	0	12	Do.		
Durham.	Butte.	160	18	51.2	- 1.0	79	6	26	14	42	2.75	- 1.11	1.27	0	7	17	5	9	R. W. Durham.		
El Cajon.	San Diego.	482	14	53.5	- 2.9	84	6+	29	16	48	1.09	- 1.62	0.40	0	7	23	4	4	H. H. Kessler.		
Electra.	Amador.	725	9	53.0	-	88	31	30	13	52	1.97	-	0.65	0	7	21	4	6	Cal. Gas & Electric Co.		
Emigrant Gap.	Placer.	5,230	39	37.6	- 0.1	60	7+	14	25	28	4.26	- 4.38	1.20	42.6	10	17	6	8	Southern Pacific Co.		
Escondido.	San Diego.	657	19	53.6	- 1.3	83	7	30	16	43	1.48	- 1.56	0.59	0	6	6	23	2	A. R. Moon.		
Eureka.	Humboldt.	64	27	45.6	- 2.4	57	17	32	24	17	3.61	- 2.57	0.89	T.	17	2	15	14	U. S. Weather Bureau.		
Farmington **.	San Joaquin.	111	34	55.6	+ 1.7	80	31	35	12	47	1.34	- 1.39	0.54	0	4	25	0	6	Southern Pacific Co.		
Folsom.	Sacramento.	252	41	52.0																	

TABLE 1.—Climatological data for March, 1913. District No. 11—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.1 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>California—Continued.</i>																					
Indio.....	Riverside.....	-20	35	61.3	-4.0	92	30	32	16	48	0.02	-0.29	0.02	0	1	27	4	0	n.w.	F. N. Johnson.	
Inskip.....	Butte.....	4,975	6	41.3	-	68	6+	16	25	32	8.46	-2.45	63.8	0	1	7	9	14	0	.....	Cal. Gas & Elec. Co.
Ione**.....	Amador.....	287	35	45.8	-8.1	70	31	32	14+	1.89	-2.05	0.66	0	4	23	7	1	.....	Southern Pacific Co.		
Jamestown.....	Tuolumne.....	1,471	10	49.3	-1.5	78	30+	24	14	36	2.11	-6.09	0.96	0	4	20	2	9	.....	Sierra Railway Co.	
Kennett.....	Shasta.....	730	1	45.9	-	79	7+	25	28	38	3.56	-	2.03	2.0	8	6	21	4	sw.	O. J. Egleson.	
Kentfield.....	Marin.....	65	25	51.1	-	79	6	29	15+	43	3.75	-4.85	1.52	0	5	16	5	9	.....	Miss M. E. Parsons.	
King City.....	Monterey.....	333	26	56.4	+3.3	87	9+	25	26	53	0.65	-1.45	0.25	0	5	20	2	9	.....	Southern Pacific Co.	
Lake Eleanor.....	Tuolumne.....	4,700	3	38.2	-	70	31	10	25	43	4.65	-	1.44	54.0	0	9	14	8	se.	O. J. Todd.	
La Porte.....	Plumas.....	3,900	19	36.0	+0.8	61	8+	4	19	31	5.85	-10.01	1.42	58.5	0	9	20	2	s.	Chas. W. Hendel.	
Le Grand.....	Merced.....	255	13	51.6	+0.3	80	21	31	1+	40	1.04	-1.76	0.33	0	4	18	13	0	w.	Santa Fe Co.	
Lemon Cove.....	Tulare.....	600	10	56.0	-0.2	88	31	26	13	42	0.90	-2.51	0.40	0	4	9	17	6	n.	G. W. Sandige.	
Lick Observatory.....	Santa Clara.....	4,209	24	41.2	+0.2	66	31	21	25	17	3.40	-	2.27	0.90	0	7	20	2	9	.....	The Director.
Livermore.....	Alameda.....	485	42	52.8	-1.0	84	8+	27	13+	46	1.65	-0.93	0.67	0	7	27	3	1	s.	E. G. Still.	
Lone Pine.....	Inyo.....	2,728	8	43.5	-	80	31	19	1	46	0.70	-	0.70	7.0	0	1	27	3	s.	G. F. Marsh.	
Long Valley.....	Lassen.....	4,400	4	40.1	-	76	19	15	26	41	0.06	-	0.06	1.5	1	3	19	8	4	.....	A. G. Evans.
Los Angeles.....	Los Angeles.....	293	36	57.8	+2.2	84	6	39	23	84	2.33	-2.65	0.28	0	3	19	8	4	sw.	U. S. Weather Bureau.	
Los Banos**.....	Merced.....	121	26	58.8	+3.4	78	9	46	27	8	0.63	-0.72	0.30	0	4	17	0	14	s.	Southern Pacific Co.	
Los Gatos.....	Santa Clara.....	600	26	52.6	+0.3	81	8	32	25	35	3.28	-	2.62	1.08	0	6	21	3	7	n.	F. H. McCullagh.
McCloud.....	Siskiyou.....	3,410	3	38.7	-	67	8+	24	39	42	-	0.63	13.5	6	11	15	5	sw.	F. F. Spencer.		
Macdoel.....	do.....	4,528	8	32.5	-	60	30	9	1	29	0.45	-	0.20	4.5	5	7	7	8	n.	Butte Valley Land Co.	
Madeline.....	Lassen.....	5,270	4	32.0	-	62	31	3	15+	40	1.16	-	0.30	13.0	0	2	27	4	w.	J. H. Williams.	
Magalia.....	Butte.....	2,321	9	48.3	-	82	9	22	23	38	6.30	-	2.48	16.0	0	7	24	0	7	se.	Butte Co. R. R. Co.
Manzanita Tank.....	Imperial.....	257	35	66.2	+0.1	93	31	44	1	35	0.00	-	0.20	0.00	0	0	27	4	w.	Union Oil Co.	
Maricopa.....	Kern.....	640	2	54.1	-	84	7	33	12	44	0.26	-	0.11	0	0	3	19	4	8	ne.	Southern Pacific Co.
Marysville.....	Yuba.....	67	42	53.5	-3.9	82	31	30	26	42	2.41	-	1.41	0.90	0	5	21	0	10	s.	Union Oil Co.
Mecca.....	Riverside.....	-185	7	59.0	-	88	5+	30	1+	49	T.	-	T.	0	0	0	23	8	0	n.w.	E. A. Palmer.
Menlo Park**.....	San Mateo.....	64	35	52.0	-1.4	65	20	33	14	1	1.00	-	2.01	0.33	0	6	5	21	2	s.	Southern Pacific Co.
Mered... Merced.....	Merced.....	173	39	53.8	-1.2	80	31	32	1+	32	0.1	-0.76	0.39	0	5	21	2	8	n.w.	Santa Fe Co.	
Middlewater.....	Kern.....	803	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.....	Union Oil Co.	
Mill Creek (1).....	Amador.....	2,500	6	47.2	-	81	6	25	14+	46	3.60	-	1.09	5.0	0	9	21	2	8	n.	Cal. Gas & Elec. Co.
Milton (near).....	Calaveras.....	660	22	53.0	-0.7	78	31	31	14	25	1.36	-	2.96	0.49	0	4	20	5	6	n.w.	J. H. Southwick.
Modesto**.....	Stanislaus.....	90	41	50.7	-5.2	78	9	32	1	-	0.37	-	1.25	0.25	0	2	23	0	8	.....	Southern Pacific Co.
Mojave.....	Kern.....	2,751	36	52.3	-1.2	95	30	32	1	-	0.02	-0.77	0.02	0.2	1	21	10	10	.....	Do.	
Mokelumne Hill.....	Calaveras.....	1,550	20	52.5	+3.9	76	31	29	25	30	1.94	-	4.30	0.58	0	7	17	4	10	.....	C. E. Prindle.
Mona Ranch.....	Ventura.....	3,210	7	44.9	-	78	30	21	26	42	T.	-	10.61	T.	0	0	22	9	0	w.	Herbert Lathrop.
Montague.....	Siskiyou.....	2,450	25	40.5	-5.2	71	9	13	15	49	0.26	-	1.31	0.10	0	4	8	13	10	e.	I. E. Deby.
Monterey.....	Monterey.....	15	48	54.3	+0.4	72	8+	38	15	-	1.68	-	1.53	0.60	0	6	22	8	1	.....	Southern Pacific Co.
Monterio.....	Kern.....	4,500	14	42.2	-7.7	80	30+	26	12+	36	2.36	-	1.89	0.55	0	7	16	8	7	n.w.	John C. Knecht.
Mount Tamalpais.....	Marin.....	2,375	14	47.0	-0.1	70	31	28	24	32	2.08	-	3.05	0.96	1.5	0	2	4	6	w.	U. S. Weather Bureau.
Napa City.....	Napa.....	20	36	49.5	-2.0	81	7	27	16+	47	2.12	-	1.58	0.95	0	6	6	13	10	s.	Alex. Hull.
Napa (S. H.).....	do.....	66	35	53.0	+0.4	79	7	34	24	37	2.08	-	1.62	0.88	0	6	25	0	2	.....	A. R. Edgar.
Needles.....	San Bernardino.....	477	21	64.8	+1.0	93	31	41	25+	35	0.00	-	0.41	0.00	0	0	23	0	3	w.	Santa Fe Co.
Nellie.....	San Diego.....	5,350	4	45.1	-	65	8+	16	1	32	9.45	-	1.09	19.0	0	13	20	1	10	se.	T. O. Bailey.
Nevada City.....	Nevada.....	2,850	21	43.4	-1.4	80	6	17	24+	52	4.02	-	4.91	1.54	0	10	15	10	6	sw.	S. W. Marsh.
Newhall**.....	Los Angeles.....	1,200	36	57.5	+3.4	87	29	36	25	-	0.11	-	3.26	0.08	0	2	21	0	10	se.	Southern Pacific Co.
Newman.....	Stanislaus.....	91	24	55.8	+0.1	86	31	30	15+	42	4.43	-	1.69	0.30	0	2	23	8	0	w.	E. S. Wangenheim.
North Bloomfield.....	Nevada.....	3,214	16	50.0	+5.9	72	6+	34	25	24	3.10	-	6.51	1.10	13.5	5	18	4	9	w.	J. R. McIntosh.
North Fork.....	Madera.....	3,000	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.....	U. S. Forest Service.	
Oakdale**.....	Stanislaus.....	156	19	64.4	+12.6	89	10	40	1	-	0.78	-	2.03	0.28	0	4	25	0	6	n.w.	Southern Pacific Co.
Oak Grove.....	San Diego.....	2,751	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.....	B. L. Johnson.	
Oakland.....	Alameda.....	36	37	51.6	-1.4	72	7	35	24	28	1.77	-	2.33	0.64	0	5	14	9	8	w.	Chabot Observatory.
Oceanside.....	San Diego.....	60	3	54.3	-	77	8	40	1+	30	0.53	-	0.22	0	6	23	5	3	w.	H. D. Brodie.	
Ojai Valley.....	Ventura.....	900	7	53.2	-	86	6	28	26	45	0.31	-	0.18	0	3	22	9	0	n.	W. H. Duncan.	
Orland.....	Glen...	254	31	52.7	-3.0	81	7	30	24	42	1.05	-	1.60	0.67	0	5	20	2	9	n.	U. S. Reclamation Service.
Orleans.....	Humboldt.....	520	10	51.6	-3.0	84	9	30	1	45	3.88	-	3.12	0.95	0	14	9	0	22	.....	F. T. Hale.
Oroville (near).....	Butte.....	250	29	51.8	-2.5	81	31	28	14	38	2.95	-	1.25	1.50	0	6	15	6	10	n.w.	E. D. Fairchild.
Palmers.....	do.....	212	22	53.1	+0.3	78	26	26	3	41	2.50	-	1.22	1.00	0	5	19	8	4	s.	Western Pacific Co.
Palm Springs**.....	Riverside.....	584	24	61.4	-3.2	92	31	38	15	-	0.00	-	0.59	0.00	0	0	31	0	0	.....	Southern Pacific Co.
Pasadena.....	Los Angeles.....	827	23	54.6	+0.2	85	6	32	25	39	0.35	-	3.33	0.22	0	4	22	6	3	sw.	E. D. Sorver.
Paso Robles.....	San Luis Obispo.....	808	26	50.8	-0.8	85	31	26	12+	47	0.68	-	2.55	0.32	0	4	23	6	2	n.	Dr. F. W. Sawyer,
Peachland.....	Sonoma.....	190	17	49.6	-2.3	81	7	27	11	46	2.84	-	4.67	0.88	0	5	20	4	7	sw.	E. H. Parnell.
Petaluma.....	do.....	50.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.....	.....
Placerville.....	El Dorado.....	1,875	24	45.8	-1.6	70	8+	26	13+	34	3.11	-	4.75	1.34	0	7	18	n.w.	A. E. May.		
Point Lobos.....	San Francisco.....	250	20	52.2	-0.2	75	7	41	24	30	1.50	-	2.04	0.48</td							

TABLE 1.—Climatological data for March, 1913. District No. 11—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.
<i>California—Continued.</i>																		
Seven Oaks.....	San Bernardino.....	5,000	3	56.0	+ 0.7	82	6†	35	25	33	0.73	- 4.64	0.30	0	4	19	2	10
Sierra Madre.....	Los Angeles.....	1,400	16	56.0	-	70	31	-3	1	42	1.00	0.50	10.0	4	17	5	9	
Sierraville.....	Sierra.....	5,000	3	34.4	-	64	30	19	14	33	2.50	- 3.12	0.80	25.0	7	17	11	3
Sisson.....	Siskiyou.....	3,555	24	37.4	- 2.4	78	27	50	1†	1.40	- 0.26	0.40	0	7	16	0	15	s.
Soledad **.....	Monterey.....	188	39	62.3	+ 8.7	75	31	29	14†	32	2.44	- 4.70	0.79	0	7	21	3	7
Sonora.....	Tuolumne.....	1,825	25	48.6	-	57	3	42	23	7	1.34	- 2.35	0.64	0	10	9	6	16
Southeast Farallon.....	San Francisco.....	30	10	58.4	- 3.1	72	30†	21	28	34	1.94	-	0.80	15.0	5	21	2	8
Springville.....	Tulare.....	4,000	6	48.0	-	72	6†	21	26	34	1.44	-	0.80	15.0	5	21	2	8
Squirrel Inn.....	San Bernardino.....	5,280	3	39.5	-	66	38	18	25	23	4.47	-	1.75	8.0	7	21	1	9
Stanwood.....	Butte.....	2,140	9	50.7	-	78	7†	21	25	42	6.89	-	1.28	14.0	8	16	8	n.
Stirling City.....	do.....	3,525	9	42.2	-	72	6†	12	25	37	4.25	-	1.60	49.0	7	16	1	14
Stockton (S. H.).....	San Joaquin.....	23	42	52.6	- 1.9	79	31	31	1	36	1.16	- 1.10	0.60	0	5	21	7	3
Storey.....	Madera.....	296	13	51.2	- 1.1	80	31	29	26	37	1.08	- 0.77	0.27	0	6	-	-	-
Suisun **.....	Solano.....	20	33	53.1	- 2.7	89	30	29	24	30	1.44	- 1.84	0.70	0	4	21	4	6
Sulphur Banks.....	Lake.....	1,350	1	49.4	-	75	8†	29	16	45	1.54	-	0.44	T	4	20	6	5
Summit.....	Placer.....	7,017	40	29.0	- 2.4	48	31	10	24	23	3.20	- 5.82	0.70	32.0	6	16	1	14
Susanville.....	Lassen.....	4,175	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tamarack.....	Alpine.....	8,000	7	21.0	-	42	5†	-7	1	45	2.40	- 8.39	1.14	25.0	8	8	13	10
Tehachapi **.....	Kern.....	3,964	36	45.4	+ 1.3	74	17	27	24	32	5.08	+ 3.28	1.60	39.0	6	-	-	-
Tehama.....	Tehama.....	220	42	50.6	- 4.3	78	8	32	14†	26	2.00	- 0.86	1.00	0	2	22	0	9
Tejon Rancho.....	Kern.....	1,500	10	52.3	- 1.9	80	9	34	26	28	1.18	- 0.87	0.42	0	5	16	8	7
Three Rivers.....	Tulare.....	870	3	51.3	-	81	31	27	14	40	1.99	-	0.80	0	5	16	8	7
Towle.....	Placer.....	3,704	27	44.0	- 0.5	72	9	15	24	43	5.85	- 3.41	1.60	37.0	3	20	2	9
Tracy **.....	San Joaquin.....	64	33	50.6	- 4.2	75	4†	32	1†	0.59	- 1.18	0.30	0	2	-	-	-	-
Ukiah.....	Mendocino.....	620	20	49.7	- 0.0	82	7	25	14	48	3.03	- 2.52	0.70	T	9	20	2	9
Upper Lake.....	Lake.....	1,350	28	47.8	- 1.4	83	7	23	13	46	2.37	- 1.49	0.72	T	5	17	5	9
Vacaville.....	Solano.....	175	25	52.5	- 1.4	86	9	27	26	47	1.54	- 2.66	0.85	0	6	12	14	5
Valley Springs **.....	Calaveras.....	673	24	55.2	+ 0.4	83	31	35	13	1.45	- 3.24	0.46	0	6	6	21	3	7
Visalia.....	Tulare.....	334	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warner Springs.....	San Diego.....	3,165	5	49.4	-	83	6	28	26	42	1.04	-	0.40	2.0	6	18	11	2
Wasco.....	Kern.....	336	13	52.4	- 2.0	80	8	30	26	37	1.00	-	0.00	-	0	4	19	0
Watsonville.....	Santa Cruz.....	23	17	51.6	- 3.1	80	7	27	15	47	1.49	- 3.90	0.35	0	7	19	8	4
Weaverville.....	Trinity.....	2,162	1	43.8	-	76	6	17	14	49	1.96	- 2.49	1.10	2.8	7	13	8	10
Wetitchpec.....	Humboldt.....	1,700	3	43.4	-	72	8	21	24	37	7.45	-	1.97	4.0	18	13	3	15
Wheatland.....	Stanislaus.....	90	24	57.1	+ 0.9	83	31	34	1	0.30	- 1.60	0.30	0	1	23	0	8	n.
Willows.....	Yuba.....	84	26	51.0	- 1.6	76	6†	30	15†	35	1.97	- 1.53	0.60	0	7	16	7	8
Yorba Linda.....	Glenn.....	136	34	52.2	- 2.4	83	7	29	26	43	0.80	- 1.40	0.38	0	4	20	4	7
Orange.....	Mariposa.....	3,945	9	42.8	-	82	8	11	20	60	3.32	-	1.02	36.0	8	19	5	7

*, †, ‡, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1913. District No. 11, California.*

TABLE 2.—*Daily precipitation for January, 1913. District No. 11—Continued.*

TABLE 2.—*Daily precipitation for March, 1913. District No. 11—Continued.*

Stations.	Watershed.	Day of month.																														Total			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>California—Contd.</i>																																			
Needles	Desert										*	*	*	*	*	5.50			*	*	1.50	*	*	*	*	2.45								0.00	
Nellie	Coast										.08								.18	.97	.08	.49	.54	.29	.30	.01								9.45	
Nevara City	Sacramento										.07								.20	.40	.38	.20	.60	.98	.18	.05								4.02	
Nevis	do											.12																						3.18	
Newhall	Coast																																	0.11	
Newman	San Joaquin																																	0.43	
North Bloomfield	Sacramento																																	3.10	
North Fork	San Joaquin																																	2.18	
North Lakeport	Coast																																	0.78	
Oakdale	San Joaquin																																	2.18	
Oak Grove	Coast																																	0.78	
Oakland	do	T.																																1.77	
Oakhill	do																																	2.59	
Oceanside	do																																	0.53	
Ojai Valley	do																																	0.31	
Orland	Sacramento	T.																																1.05	
Orleans	Klamath																																	3.88	
Oroville	Sacramento																																	2.95	
Ozona	Coast																																	0.00	
Palermo	Sacramento																																	2.50	
Palm Springs	Desert																																	0.00	
Parkfield	Coast																																	0.56	
Pasadena	do																																	0.35	
Paso Robles	do																																	0.68	
Peachland	do	T.																																2.84	
Petaluma	do	T.																																1.95	
Phoenix Dam	San Joaquin																																	2.87	
Pilot Creek	Sacramento																																	7.03	
Pinchot	Coast																																	0.56	
Pine Crest	do																																	0.73	
Placerville	Sacramento																																	3.11	
Point Lobos	Coast	T.																																1.50	
Point Loma	do																																	0.42	
Point Reyes	Coast																																	1.40	
Pomona	do																																	0.65	
Porterville	San Joaquin																																		0.65
Priest Valley	Coast																																		2.88
Quincey	Sacramento																																		1.94
Red Bluff	do																																	3.20	
Redding	do																																	0.56	
Redlands	Coast																																	0.77	
Reedley	San Joaquin																																	2.07	
Repressa	Sacramento																																	1.44	
Rialto (near)	Coast																																	1.44	
Rio Vista	Sacramento																																	1.45	
Riverside	Coast																																	0.54	
Rocklin	Sacramento																																	1.68	
Rohnerville	Coast	T.																																3.68	
Ruth	do																																	5.58	
Sacramento	Sacramento																																	1.34	
St. Helena	Coast																																	2.72	
Salinas	do																																	1.46	
San Bernardino	do																																	0.63	
San Diego	do																																	0.42	
San Francisco	do	T.																																0.01	
San Jacinto	do																																	0.97	
San Jose	do																																	1.17	
San Luis Obispo	do																																	0.96	
San Mateo	do																																	1.96	
San Miguel	do																																	0.68	
San Miguel Island	Ocean																																	1.07	
Sanger	San Joaquin																																	2.63	
Santa Ana River	Coast																																	0.64	
Santa Barbara	do																																	0.66	
Santa Clara	do					</																													

TABLE 2.—*Daily precipitation for March, 1913. District No. 11—Continued.*

Stations.	Watershed.	Day of month.																													Total			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>California—Contd.</i>																																		
Upper Mattole.....	Coast.....	T.	.34	.17		.02																												4.62
Vacaville.....	Sacramento.....	T.																															1.54	
Valley Springs.....	San Joaquin.....																																1.45	
Visalia.....	do.....																																.	
Warner Springs.....	Coast.....																																1.04	
Wasco.....	San Joaquin.....																																1.00	
Watsonville.....	Coast.....																																1.49	
Weaverville.....	do.....																																1.96	
Weitchpec.....	Klamath.....		.30	.03	T.																												7.45	
West Branch.....	Sacramento.....		12																														6.89	
Westley.....	San Joaquin.....																																0.30	
West Point.....	do.....																																2.63	
West Saticoy.....	Coast.....																																0.36	
Wheatland.....	Sacramento.....		T.																														1.97	
Willows.....	do.....																																0.80	
Yorba Linda.....	Coast.....																																0.04	
Yosemite.....	San Joaquin.....																																3.32	

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures for March, 1913. District No. 11, California.

Date.	Lake View, Oreg.		California.																								
			Alturas.		Barstow.		Brawley.		Colusa.		Eureka.		Fresno.		Independ- ence.		Los Angeles.		Mount Tamalpais.		Nevada City.		Porter- ville.		Red Bluff.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
1.	34	10	48	8	62	31	53	29	62	29	53	37	56	39	56	37	38	14	63	44	47	39	52	21	53	38	
2.	36	27	43	29	66	34	54	35	69	40	55	39	58	49	64	42	43	21	64	47	54	38	63	33	54	42	
3.	43	33	52	30	74	36	56	34	75	35	60	42	53	47	68	43	54	24	72	47	60	43	67	30	66	42	
4.	46	29	53	22	75	33	60	30	79	39	69	39	54	42	71	45	57	27	79	56	61	46	68	29	67	44	
5.	45	28	55	19	79	38	73	38	82	40	75	40	45	44	72	45	66	33	82	57	63	51	74	29	76	45	
6.	53	26	57	18	78	37	76	40	82	47	78	40	47	39	74	49	64	38	84	60	65	55	80	28	78	52	
7.	57	25	61	20	75	37	79	40	84	49	78	44	52	40	78	51	64	36	81	55	64	55	78	31	82	48	
8.	57	26	63	22	79	39	76	39	78	45	75	42	54	42	80	52	66	34	79	57	70	59	75	30	80	46	
9.	56	27	62	25	82	40	70	37	77	45	69	41	47	38	80	54	64	30	71	45	66	54	74	30	74	44	
10.	43	23	57	25	80	42	70	34	67	52	69	40	49	42	76	47	62	32	61	46	57	34	70	32	69	46	
11.	38	23	49	26	52	40	60	30	65	49	69	39	50	43	55	42	52	28	54	44	45	32	51	25	61	44	
12.	34	14	41	15	64	42	50	28	66	46	69	39	48	38	64	40	54	30	41	47	34	58	22	64	42	58	32
13.	31	18	35	22	67	44	49	24	69	45	62	29	49	36	62	36	58	33	61	47	46	33	52	18	60	36	
14.	34	5	42	17	66	36	58	23	66	44	62	38	46	33	63	34	47	25	65	45	50	33	58	18	66	36	
15.	39	8	55	15	62	32	67	26	64	44	65	36	50	34	67	37	55	26	66	47	56	43	64	23	52	36	
16.	45	23	59	23	71	35	66	32	58	35	68	34	56	39	73	42	60	26	77	52	61	46	64	25	66	38	
17.	41	31	53	36	76	36	48	37	70	34	55	40	58	45	70	46	68	36	72	51	48	38	51	31	52	41	
18.	36	26	43	27	65	43	50	35	75	36	58	43	53	43	63	45	54	30	60	49	46	38	47	30	55	39	
19.	35	26	41	29	62	44	44	37	69	47	67	45	47	39	60	44	56	27	59	49	44	33	44	35	58	42	
20.	29	13	34	15	70	40	42	26	69	40	54	43	46	36	57	39	55	30	62	44	42	31	42	29	50	36	
21.	34	23	39	24	74	48	38	32	70	41	56	41	48	42	64	42	62	28	61	47	42	37	41	30	52	43	
22.	44	22	37	26	62	42	40	32	70	49	58	42	44	37	50	41	52	40	55	43	41	31	41	30	51	38	
23.	29	14	40	15	56	41	38	26	69	45	56	40	44	36	55	38	46	26	55	39	36	29	37	27	43	36	
24.	29	4	32	8	61	40	45	24	67	45	54	33	46	32	51	37	46	24	56	43	41	28	44	17	53	34	
25.	36	10	35	5	65	35	50	29	63	44	50	33	46	35	57	34	46	21	61	41	47	30	49	17	54	33	
Mns.	40.6	21.6	48.5	22.2	70.6	38.9	57.7	32.4	72.4	42.2	64.5	39.2	50.6	40.6	66.9	42.8	57.8	29.5	67.3	48.2	53.3	40.6	59.5	27.2	62.9	41.4	

Date.	California.																									
	Redlands.		Sacramento.		San Diego.		San Fran- cisco.		San Jose.		San Luis Obispo.		Santa Bar- bara.		Santa Rosa.		Sisson.		Stockton.		Summit.		Susanville.		Yosemite.	
Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
1.	63	32	53	37	64	43	55	43	60	33	59	36	57	39	56	30	36	22	56	31	34	13	74	14		
2.	68	40	60	44	60	46	61	48	67	42	64	41	62	41	60	43	37	24	64	38	35	22	66	26		
3.	76	41	66	44	64	44	65	50	68	40	71	40	70	41	68	47	50	29	68	41	42	22	63	23		
4.	79	43	68	45	71	50	64	48	67	39	66	38	70	42	68	36	50	32	70	42	41	17	76	23		
5.	81	47	73	46	51	71	45	73	70	47	74	75	42	73	35	55	28	74	45	43	27	70	25			
6.	82	45	77	46	74	51	71	46	75	40	80	50	80	46	75	34	62	30	76	40	44	28	74	28		
7.	79	43	77	49	76	53	77	46	79	38	80	44	80	46	76	33	63	30	72	42	42	27	79	23		
8.	76	43	76	50	72	51	73	51	80	43	80	44	80	44	78	45	77	36	60	31	77	45	82	25		
9.	74	42	76	49	64	49	57	45	76	41	74	41	65	44	69	36	63	30	77	46	46	24	76	25		
10.	69	40	61	41	59	48	50	45	59	45	47	60	50	52	42	58	24	70	42	44	24	76	28			
11.	50	46	58	39	56	47	55	45	55	44	50	42	55	46	61	31	38	26	57	40	38	20	76	27		
12.	55	36	65	35	58	51	60	45	62	35	53	42	62	44	66	32	40	25	64	36	36	20	53	17		
13.	61	42	58	37	58	48	58	43	60	33	61	42	62	38	60	27	40	27	66	35	35	20	60	14		
14.	63	37	60	36	60	44	59	45	61	32	60	41	60	37	66	27	44	19	67	33	30	13	58	20		
15.	67	33	66	37	69	47	65	44	68	32	67	38	66	36	67	27	49	23	70	40	43	20	62	19		
16.	76	34	66	41	69	44	65	45	71	35	70	38	68	38	69	29	48	28	68	38	43	24	70	20		
17.	78	44	53	45	68	48	54	46	57	43	65	35	70	40	62	42	40	26	54	36	43	32	70	22		
18.	54	42	56	44	60	49	56	48	60	46	56	46	58	44	55	42	45	28	59	45	45	32	58	18		
19.	56	45	59	44	56	50	55	45	57																	